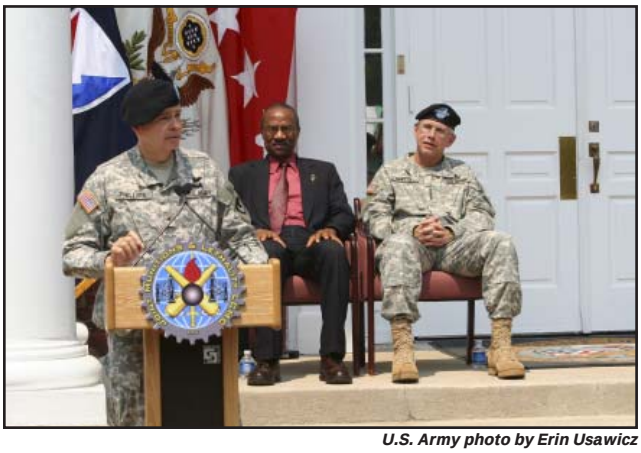
The Bullet'n

Volume 2, Issue 6 *"Supporting the Warfighter"* **June 2007**

A new era begins...

Phillips new JM&L LCMC commander



U.S. Army photo by Erin Usawicz

Brig. Gen. William N. Phillips, commander of Joint Munitions and Lethality Life Cycle Management Command, speaks before the Picatinny audience as well as Claude M. Bolton Jr. (center), assistant secretary of the Army for Acquisition, Logistics and Technology, and Gen. Benjamin S. Griffin, commanding general for the Army Materiel Command, at Picatinny Arsenal June 1.

By Tonya K. Townsell
Picatinny Arsenal Public Affairs Office

PICATINNY, N.J. -- The Joint Munitions and Lethality Life Cycle Management Command and the Program Executive Office for Ammunition welcomed a new leader during a ceremony held June 1.

Brig. Gen. William N. Phillips assumed responsibility for both organizations when Maj. Gen. Paul S. Izzo turned over command of the JM&L LCMC and management of PEO Ammunition during a well-attended event held under sunny, blue skies.

Gen. Benjamin S. Griffin, commanding general for the Army Materiel Command, officiated at the JM&L LCMC portion of the ceremony, while Claude M. Bolton Jr., assistant secretary of the Army for Acquisition, Logistics and Technology, presided over the PEO Ammunition management change.

During the ceremony, Izzo was awarded the Distinguished

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Pine Bluff Arsenal joins Joint Munitions Command

U.S. Army photo by Cheryl Avery

A Pine Bluff Arsenal employee conducting tests.

Army Materiel Command
News Release

FORT BELVOIR, Va. -- Operational control of industrial activities at Pine Bluff Arsenal, Ark., has transferred from the U.S. Army Chemical Materials Agency to the U.S. Army Joint Munitions Command, announced officials at the Headquarters, Army Materiel Command.

The May 7 transfer aligns the arsenal's missions of ammunition production, chemical/biological defense production and repair, depot storage and surveillance, chemical weapons management, and homeland security with an industrial life cycle management command-ultimately leveraging its industrial and technical capabilities.

In addition, the move allows CMA to focus on its core competencies of chemical storage and destruction. CMA and JMC are major subordinate commands within AMC.

The Pine Bluff Chemical Activity, a tenant on Pine Bluff Arsenal, will continue to report to CMA since the activity was designed for the purpose of destroying chemical weapons stored at the arsenal.

AMC officials expect a smooth transition of mission and functions as JMC works to delineate responsibilities and establish the interfaces for a formal transfer of operational control. JMC will assume full command and control of the arsenal on October 1.

Change

Continued from page 1

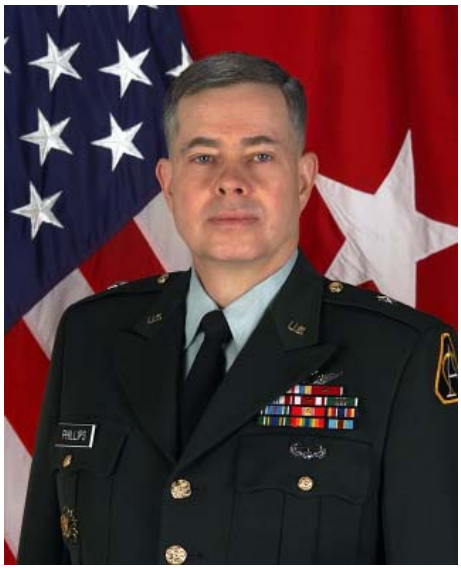
Service Medal for his service to joint service warfighters and the significant impact of his actions in support of the Global War on Terrorism had during a five-year tenure.

In addition, Izzo's wife Kathy was awarded the Outstanding Civilian Service Award for her contributions to Picatinny as a spouse and volunteer.

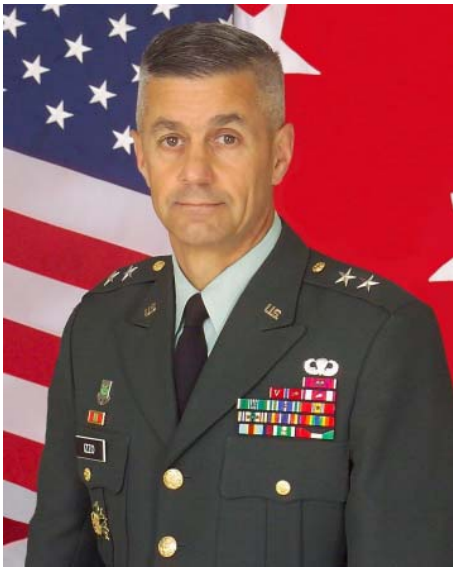
During his remarks, Bolton noted the bittersweet significance that changes in command bring to a military community and said Picatinny is no different. While, he said, in Izzo, Picatinny has been blessed with a leader who understands economics and politics as well as diplomacy and lore, in Phillips the installation and command receives a leader who has served with great distinction and knows program stability as well as fiscal management.

Griffin echoed Bolton's sentiments about the importance of both generals to the JM&L LCMC and PEO Ammunition. He then emphasized what was a significant thread throughout the ceremony — that ammunition is a Soldier's number one priority because no warfighter can deploy without ammunition.

Promising to never lose sight of the mission of serving the fighting troops, Phillips spoke about his hope to continue improving the teamwork between Picatinny and Rock Island Arsenal, Ill. in support of the warfighter.



Brig. Gen. William N. Phillips



Maj. Gen. Paul S. Izzo

In his final address to the community, Izzo thanked individual team members as well as the whole JM&L LCMC community and emphasized the importance of the work they do everyday.

"I wish I could say to you 'mission accomplished'," he told Bolton and Griffin, "but I cannot because the need for the JM&L LCMC's support to the warfighter will never end."

The U.S. Joint Munitions & Lethality Life Cycle Management Command aligns three organizations that execute the Army's munitions and lethality mission — the Program Executive Office for Ammunition and the Armament Research, Development and Engineering Center both located in Picatinny, N.J. and the Joint Munitions Command at Rock Island Arsenal, Ill. — under the Army Materiel Command in Fort Belvoir, Va.

JM&L LCMC brings together the Army's full munitions acquisition, logistics and technology capabilities to form a more effective life cycle management process for conventional ammunition.

The JM&L LCMC Bullet'n *is an authorized publication for members of the Department of Defense. Contents of* **The Bullet'n** *are unofficial and are not necessarily the views of, or endorsed by, the U.S. Joint Munitions & Lethality Life Cycle Management Command, the Department of the Army, the Department of Defense, or any other U.S. Government agency.*

The editorial content of **The Bullet'n** *is the responsibility of the Public Affairs Office at Joint Munitions Command Headquarters. Contributions to* **The Bullet'n** *are welcome; contact information follows.*

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Tooele Army Depot: 65 years strong

U.S. Army file photo

An entrance sign to the previous Tooele Ordnance Depot, now Tooele Army Depot, circa 1942.

By Kathy Anderson
Tooele Army Depot
Public Affairs Officer

This year marks the 65th anniversary for Tooele Army Depot, Utah. On April 7, 1942, TEAD was established as the Tooele Ordnance Depot, a World War II Ordnance Corps installation. The depot transferred from the Chief of Ordnance to the U.S. Army Supply and Maintenance Command on August 1, 1962 and was renamed the Tooele Army Depot. There were approximately 2, 300 civilian employees working at that time and the main mission was to operate a supply depot providing for the receipt, storage, issue, maintenance, and disposal of assigned commodities.

Many changes to the installation have taken place in 65 years: transferring the chemical mission in 1995, the 1993 Base Realignment and Closure recommendation that TEAD eliminate the troop support, maintenance, storage, and distribution missions (realignment of the maintenance and supply missions were completed in 1995), January 1999 - transfer of title of the surplus property to the redevelopment agency of Tooele City, and September 1999 - the mission of the Defense Non-Tactical Generator and Rail Center command and control transferred to the U.S. Army Tank-Automative and Armaments Command.

U.S. Army file photo

A Tooele Army Depot worker using machinery to tow an Army vehicle in 1949.

The installation's mission today is twofold: first, as a major power projection platform for all services serving the warfighters ammunition needs worldwide. Tooele has a storage, inspection, maintenance and testing of

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It's all in the sugar!

Sugar-based smoke in grenades protect Soldiers, environment

U.S. Army photos

Soldiers watch as green smoke from a grenade is released on a training range.

By Maj. Keith Taylor
Special to The Bullet'n

PICATINNY, N.J. -- The colored smoke that Soldiers use to communicate on the battlefield and to identify landing zones, friendly troops and potential targets is undergoing changes that will make it safer for Soldiers and the environment.

"This effort calls for removing potentially harmful dyes and other materials from smoke grenades," said Col. John L. Koster, the project manager for Close Combat Systems. PM CCS manages the M18 smoke grenade family for the Army.

Koster explained that as a grenade ignites, the dye inside vaporizes and condenses to form a colored cloud.

The original formulation in most smoke grenades relied on a sulfur-based fuel to generate just enough heat to vaporize the dye, he said.

However, "the smoke could cause a burning sensation if inhaled, and the dye residue could potentially have a harmful effect on the environment," he said.

The good news is that Army scientists have identified possible changes that are now being made to smoke grenades that not only remove the sulfur, but also reduce the weight and manufacturing costs.

The colored dyes are undergoing evaluation to determine if lower toxicity dyes can be used in the grenades. Each colored grenade is an independent thermal system and has its own unique problems to solve.

"The scientists came up with a sugar formation that replaces the sulfur that was previously used in most smoke grenades employed by the U.S. military," said Koster. It underwent rigorous testing at Edgewood Chemical Biological Center in Maryland. As a result, two of the sugar-based mixtures - the green and yellow versions - are currently being used in the field.

But scientists are finding changes to the red and violet M18 smoke grenades a bit more difficult; the new dyes burn instead of smoke and are not producing enough colored smoke to meet strict military standards.

The sugar-based smoke compositions burn slightly hotter than the sulfur-based compositions, which results in the newer dyes decomposing rather than vaporizing and exiting the grenades.

To keep the new smoke compositions burning long enough to produce the necessary amount of smoke, starter patches are being tested to replace the more complex pellet ignition system.

In addition, the older pellet ignition system had some reliability issues. The change to the starter-patch system not only makes ignition more reliable because of the increased contact with the smoke composition, but the intimate contact greatly increases ignition reliability at colder temperatures.

While the violet smoke grenades are nearly complete in meeting the required military standards, additional testing and development is required to assure a high quality product for Soldiers. The M18 red smoke grenade is in the earlier stages of development and possesses additional challenges to the replacement effort.

For now, pyrotechnic experts say changes to the smoke grenades will make training and deployed scenarios safer for Soldiers as well as help protect and preserve the land on which they train and fight.

New counsel to serve JMC, ASC

Army Sustainment Command News Release

ROCK ISLAND, Ill. -- Kathryn T. H. Szymanski has been named as the new Chief Counsel for the U.S. Army Sustainment Command and the U.S. Army Joint Munitions Command.

Szymanski was selected as Chief Counsel for ASC and JMC following the retirement earlier this year of Anthony Sconyers. As Chief Counsel, Szymanski serves as the primary legal advisor for the ASC and JMC commanding generals and for all staff and field elements. She leads a staff of attorney-advisors who provide legal services and advice for ASC and JMC Headquarters and for the commands' national and global network of sites and field activities.

Szymanski came to ASC from Department of the Army Headquarters in Washington, D.C., where she served as Deputy Assistant Secretary of the Army for Infrastucture Analysis. In that position, she led infrastructure studies, provided assistance to the Army Installation Management Team, and was responsible for Business Transformation and Lean Six Sigma initiatives.

Szymanski's previous assignments were at the Headquarters of the U.S. Army Materiel Command, where she served as acting Executive Deputy to the Commanding General and as AMC's Command Counsel. During her career, she has also worked at the TACOM Life Cycle Management Command as a procurement attorney, general

Kathryn T. H. Szymanski

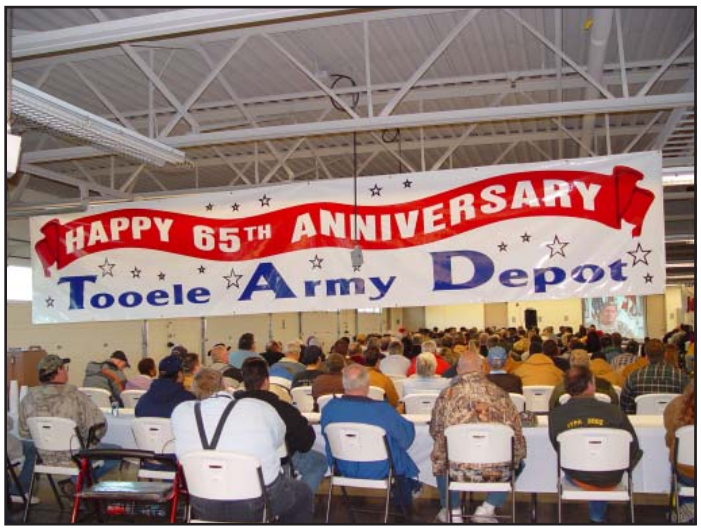
law attorney, and procurement fraud advisor; as Chief Counsel at the Communications-Electronics Command; and as a counsel for the Defense Reutilization and Marketing Service and the Defense Contract Management Agency. She was appointed to the Senior Executive Service in 1995.

A native of Michigan, Szymanski was awarded a juris doctorate from Michigan State University's Detroit College of Law, and is a member of the State Bar of Michigan. She also holds a professional certificate in electronic law and finance from New York University.

During her career, Szymanski has earned numerous awards, including the 2000 and 2005 Presidential Rank Award for Meritorious Executive and the Army Civilian Meritorious Service Award.

History

Continued from page 3



U.S. Army photo submitted by Kathy Anderson

Employees celebrate Tooele Army Depot's 65th Anniversary, including a cake-cutting ceremony.

training stocks as well as war reserve ammunition mission.

Tooele has an extensive demilitarization capability for a variety of conventional ammunition. Second, as a life cycle management installation, the Ammunition Logistics and Engineering Directorate provides the design, development, manufacture and fielding of ammunition related equipment under the Ammunition Peculiar Equipment program. This equipment is used in the maintenance and demilitarization of munitions throughout the world. TEAD also serves as the National Inventory Control Point for all APE.

The employees celebrated the anniversary on April 19 at an off-site Safety and Training Day. Agenda included: workforce address by Col. Anne L. Davis, TEAD Commander; several mandatory training requirements, and a Voluntary Protection Program kick-off. Employees also had lunch together in a social setting.

Lean Six Sigma project targets safety

By Richard Rodriguez
JMC Lean Six Sigma Office

ROCK ISLAND, Ill. -- Joint Munitions Command's safety data will be more accurate and timely, thanks to a Black Belt project, the first completed by a headquarters JMC Black Belt candidate.

Each month, JMC installations submit safety data into the Metric Management Reporting System for JMC headquarters to review and provide information for senior decision makers.

As a result of process improvements made by the Black Belt team, the process time for the cost of rework was cut from 33 hours per month to 4.5 hours per month, a total reduction of 87 percent. The project also saved $26,000 in cost avoidance.

"(The completed black belt project) improved the data accuracy that helps us identify installations that may be experiencing more injuries," said Tim Gallagher, chief of safety division, safety/radioactive waste directorate. "This helps us detect possible trends, look for problem areas and develop better hazard controls to prevent injuries."

Gallagher said MMRS also reveals command-wide accident rates to help spot possible systemic safety problems.

A review of the MMRS input data revealed various flaws in the way data were being inputted into MMRS as well as the system itself. Several of the MMRS formulas designed to calculate lost-time cases, installation population, installation recordable injuries, and total hours at the installations were inaccurate. Through root cause analysis with cause and effect matrixes, the team prioritized the potential causes. The ranking resulted in two deficient areas: MMRS and lack of adequate safety data input training.

The Black Belt team decided on a two-fold method to fix these issues. First, the team initiated a work project to repair more than 25 flaws in MMRS. Some flaws were extensive coding fixes while others were minor display fixes. Once the repairs were made, the team launched a MMRS pilot to verify data and cleanse any other issues resulting from the initial fixes.

The pilot lasted four weeks to allow installations to input simulated data and work out any bugs. The second method required a headquarters safety training plan to the installations to review several areas of key inputting. The team recommended that JMC headquarters send the installations the following documents for training: OSHA 300 Log Record-Keeping, MMRS Instruction sheet, and a notes page. The last two documents were additional to the MMRS revised system.

A seven-member team made up of personnel from JMC headquarters and the Defense Ammunition Center, U.S. Center for Technical Explosive Safety, and the McAlester Army Ammunition Plant, all located in McAlester, Okla., and the Iowa Army Ammunition Plant, in Middleton, Iowa, carried out the project.

A Black Belt project at the Department of the Army level is looking to combine all the current Safety Data Reporting Systems into a single entity.

The Bullet'n is looking for interesting sports stories and features. Email rock-amsjm-pa@conus.army.mil with possible stories and ideas.

AMC deployment pins await civilians

By Diana Dawa, AMC Public Affairs

FORT BELVOIR, Va. -- Army Materiel Command civilians who have deployed in support of Operations Iraqi and Enduring Freedom are awarded an AMC civilian campaign pin upon the completion of their tour.

In September 2005, Gen. Benjamin Griffin, commanding general, AMC, signed the policy of awarding the pin into effect.

James DeLoach, human resource specialist, AMC Office of Personnel G1 was responsible for making the pin a reality.

Upon hearing from civilians about their perception of a lackluster procedure for recognition of their time in the desert, DeLoach felt he had to do something to let those civilians know their support is appreciated. In January 2005, he produced the concept, design, policy and plan of implementation of the pin and submitted the project to Griffin for approval.

Designed with the Army campaign medal in mind, DeLoach explained the pin's purpose is to help foster esprit de corps.

Thomas Mossey, Systems of Systems Integration, Research, Development and Engineering Command, was one of the first Army civilians at Fort Belvoir to be awarded the pin. Mossey was a member of an eight-person team selected to deploy and work with the Iraqi Ministry of Defense. His mission was to help them set up and establish a logistics infrastructure.

Receiving the pin from Gen. Griffin during a ceremony held at the AMC headquarters building was an honor said Mossey.

Reflecting on his deployment, Mossey said it was very challenging and rewarding.

"It was a good opportunity for me to do something where the Army seemed to think that I was the guy to go over and play a part and just do my role, complete the mission and then come back. It was probably the most rewarding thing I've ever done professionally," said Mossey.

"It is imperative our civilian counterparts feel they are part of this team," said Maureen O. Viall, director, deputy chief of staff for personnel and logistics G-1/G-4. "The awarding of the AMC Civilian Campaign Pin upon completion of a deployment assures our civilian workforce the AMC leadership recognizes their hard work and sacrifices."

The campaign pin may be awarded to AMC civilians who deployed for more than 90 days. For civilians who deployed, served honorably, but came back early due to injury, the pin is automatically awarded. The pin may also be awarded posthumously, said DeLoach.

Over 1800 pins have been sent to AMC major subordinate commands since the policy took effect.

ARDEC employee honored by peers

Tony Farina

By Raymond Trohanowsky
Special to the Bullet'n

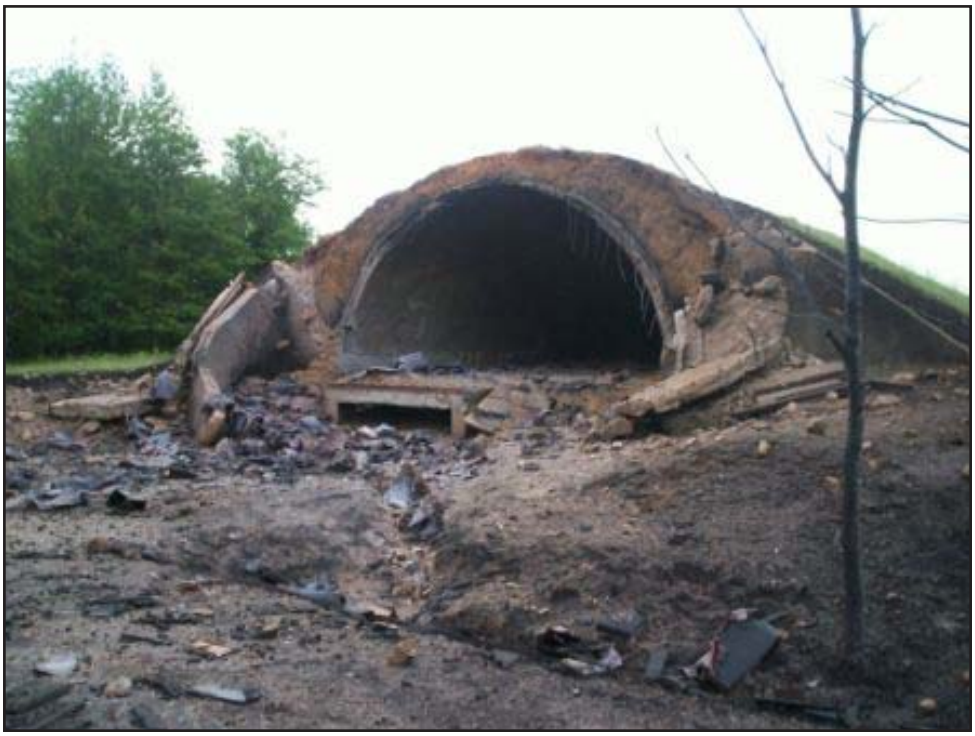
PICATINNY, N.J. -- Armament Research, Development and Engineering Center employee Tony Farina was elevated to the status of American Institute of Aeronautics and Astronautics Associate Fellow earlier this year. The AIAA is the professional society for the field of aerospace engineering.

Their mission is to advance the arts, sciences and technology of aeronautics and astronautics, and also to promote the professionalism of those engaged in these pursuits.

According to the AIAA, associate fellows are people who have accomplished or been in charge of important engineering or scientific work, have done original work of outstanding merit or have otherwise made outstanding contributions to the arts, sciences or technology of aeronautics or astronautics.

Farina, who works in the Aeroballistics Division of the Munitions Systems and Technology Directorate of the ARDEC Armaments Engineering and Technology Center, was recognized for his contributions to the field of tank-fired projectile aeroballistics.

Igloo design does its job



Photos by David Duncan

The remains of a Milan Army Ammunition Plant igloo after a May 16 explosion. The igloo stored ammunition for a commercial firm. An Army investigation has begun into the cause of the explosion.

The top of the igloo was blown into a nearby field.

Scattered debris littered the ground around the igloo.

MILAN ARMY AMMUNITION PLANT, Tenn -- The recent explosion of an ammunition storage igloo here again proved the value of the earth-covered structures' design.

According to Tim Gallagher, chief of safety division, safety/radioactive waste directorate for JMC, earth-covered magazines have offered safe and secure storage for ammunition and explosives for the Army since the 1920s.

The igloo functioned as expected for this type of event by releasing the pressure through initial collapse of the headwall, said Gallagher. He said the door and headwall are the weakest part of an earth-covered magazine and offer the least resistance during an explosives event.

In addition to design, safe distances are used to protect adjacent magazines from the effects of an accidental explosion. Adjacent magazines are required to be greater distance from the front of a magazine than they are from the sides or rear as a result of the design and expected initial frontal release of pressure. The combination of design and distance on the earth-covered magazine at Milan AAP served its purpose of preventing propagation to adjacent earth covered magazines also storing ammunition and explosives.

Marines, mules train at Hawthorne

Marines of 3rd Battalion, 7th Marine Regiment, guide mules heavily packed with gear as part of a field exercise in September during their summer training package. Marines train to pack, care for and use these animals in a tactical environment at Marine Corps Mountain Warfare Center Bridgeport, Calif.

U.S. Marines photo by Cpl. Brian A. Tuthill

Twentynine Palms Marines train for mountain environment

By Cpl. Brian A. Tuthill
Combat Correspondent
Reprinted by persmission of Twentynine Palms Marines Public Affairs

HAWTHORNE ARMY AMMUNITION DEPOT, Nev. -- When the long and winding road becomes the steep and impassable mountain ridge, vehicles topple, gear is grounded and operations come to a grinding halt. But if Marines have pack mules on their side, all but the steepest terrain can be overtaken. With the help of instructors from the Marine Corps Mountain Warfare Training Center in Bridgeport, Calif., Marines learn to pack their mules and traverse some of the most rugged terrain the Sierra Nevada Mountains have to offer.

"The saying goes, 'you can pack anything indigenous to an infantry battalion,'" said Anthony Parkhurst, a retired Marine master sergeant who has worked with the mules at Bridgeport and currently offers his skills and services with training evolutions. "A full compliment of mules can easily move an entire infantry battalion through the mountains."

Bridgeport's 27 mules are the only mules owned and operated by the Department of Defense, said Sgt. Arlen Gentert, stable noncommissioned-officer-in-charge and pack master. "A mule is a cross between a horse and a donkey, and they pick up the good traits from both. They have the problem-solving skills of a donkey with the strength and size from the horse. Other countries around the world use mules in their militaries, but we are the only ones in the DoD. Most people don't even know we exist."

Gentert and three other instructors from Bridgeport rode 22 mules more than 45 miles over rough mountains to the Army's Hawthorne Ammunition Depot, to assist with the "Mountain Viper" Afghanistan predeployment training program.

During normal training packages at Bridgeport, the team of instructors will train a few dozen Marines from a visiting battalion to pack, care for and use the mules. At Hawthorne, however, the training mission is different and the group is smaller, but they still receive exposure to being around and using mules in this terrain.

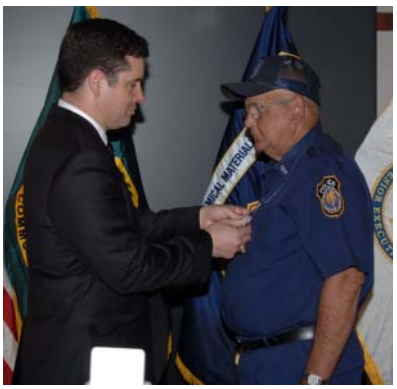
"Marines moving throughout Afghanistan will almost certainly encounter donkeys or some sort of domesticated pack animals," said Gentert. "We not only give them [Marines] the exposure, but the packing training as well in case their guide is wounded or something, they know what to do themselves and know what to look for if they have to buy something."

Parkhurst said the mule program began in 1983 as an experiment in response to the Afghan-Russian War, and was designed to only last five years.

"Another advantage to using mules is they last a lot longer," said Gentert, who grew up on a farm around animals in Wendell, Idaho. "You can work a mule for 20 plus years, so we get more return from our investment when buying these animals. You can load a mule to 33 percent of its body weight, so if you have a 900-pound mule, that's more than a 300-pound load. That's a lot of water, food, weapon systems."

Another reason the mules are used for packing training is to educate Marines on the principles of packing, which some packers say is more art than science.

Pine Bluff Arsenal heroes honored



U.S. Army photo by Cheryl Avery

U.S. Army photo by Cheryl Avery

PINE BLUFF, Ark. – Jimmy Crowder and Edgar Hopper were presented the Department of the Army Civilian Award for Humanitarian Service during a ceremony on May 22. The award was presented to Crowder, a security guard, and Hopper, a mechanical engineering technician, for performances well above and beyond the call of duty.

On the morning of Nov. 5, 2006, Crowder spotted a vehicle overturned in a ditch, partially submerged in water, while driving home from work. Crowder discovered a man trapped in the vehicle, called 911 and stayed with him until help arrived. He had been trapped since the previous evening.

On the morning of Dec. 6, 2006, Hopper spotted a house fire on his way to work. He immediately called 911, awoke the occupant of the house, and helped her to safety.

The award will be presented by Dale A. Ormond, Acting Director of the U.S. Army Chemical Materials Agency (CMA), at Aberdeen Proving Ground, Md.

DAC, Holston AAP hold safety stand-downs

By James Hammonds
DAC Safety Manager

McALESTER, Okla. -- The Defense Ammunition Center held its annual Safety Stand-Down Day on May 24. The annual safety training included a briefing presented by each directorate that covered job-related safety issues, Memorial Day weekend safety guidelines, and emphasized the role of the directorate safety steward.

DAC personnel then participated in the Federal Hazard Communications training. This training ensures that employees understand they have a "Right to Know" about hazardous chemicals in the workplace and how they are protected. Each directorate also moved to its designated evacuation point to discuss emergency actions in the event of fire, bomb threats, and other disasters that would require building evacuation. A visit to designated severe weather shelters was the finale to the emergency actions training. Each directorate then returned back to its classrooms and viewed driving safety videos and received educational information on heat injury prevention.

The training ended with each employee taking the National Safety Council "Safety Barometer" survey. This survey was also administered at the 2006 Safety Stand-Up Day, the results will be analyzed to see improvements and weaknesses in the DAC Safety Management program.

By Nancy Gray
Holston AAP Public Affairs

HOLSTON, Tenn. -- Holston's government staff participated in a Safety Stand-Down Day with more than 400 participants from the Kingsport area. The 22nd Annual Safety Seminar was sponsored by the Kingsport Area Safety Council, American Society of Safety Engineers, Tennessee Department of Labor, and East Tennessee State University Office of Professional Development.

Employees chose from Pandemic Influenza, The Role of Leadership in Achieving Safety Excellence, Workplace Ergonomics, Beware of the Great Outdoors (taught by Holston government employee Bruce Cole), and other subjects. Government employees attended three or more of the workshops, which provided a wealth of information for use at home and on the job.

Workshop presenters came from the National Weather Service, Eastman Chemical Company, Ordnance Systems Inc., Wellmont Health Systems, Tennessee Occupational and Health Administration, Kingsport Police Department, and others. The focus was on educating attendees to better recognize "safe and unsafe", establishing and practicing safer and healthier ways of taking care of ourselves and our families, and being always vigilant in creating a safe environment.